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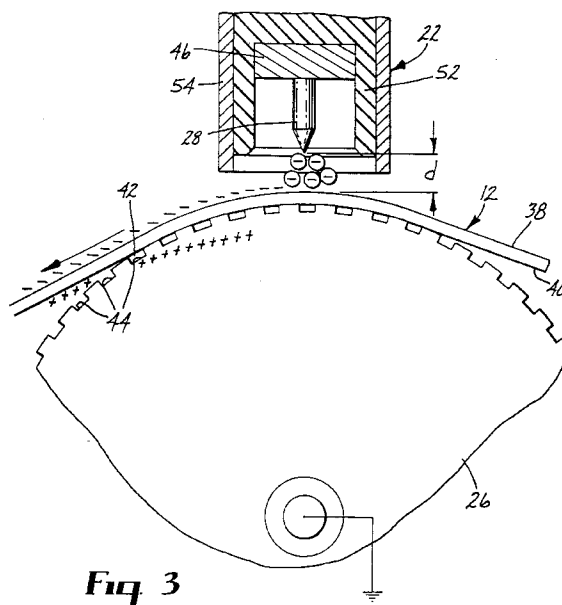
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(54) **System for improving wound roll quality by electrostatically charging magnetic tape.**

(57) A system for improving the quality of wound rolls (10) of magnetic tape (12) includes a roll (10) on which the tape (12) is wound and a charging apparatus which charges the tape (12). The charging apparatus applies an electrostatic charge onto the tape (12) to create an attractive force between the tape strands as they are brought together during winding to improve the alignment of the tape (12) on the roll (10) during high speed winding. The static charging does not significantly effect the tape performance. The charging apparatus includes at least one corona needle (28) press fit into a brass block (46), and an insulated supply cable (32) connected between the brass block (46) and a voltage source (30).





European Patent
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EUROPEAN SEARCH REPORT

Application Number

EP 92 30 0718

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	FR-A-2 287 986 (TEIJIN LIMITED) * the whole document *	1,4	G11B15/66 G11B15/32 G11B23/113
D,Y	& GB-A-1 500 829 ---	1,4	
D,Y	US-A-4 909 455 (MASAAKI SAKAGUCHI) * abstract *	1,4	
P,A	PATENT ABSTRACTS OF JAPAN vol. 15, no. 270 (P-1225)9 July 1991 & JP-A-30 91 119 (FUJI PHOTO FILM CO) * abstract *	1,11,12	
A	DE-A-3 033 823 (AGFA GEVAERT) * claim 1 *	1,3	
A	EP-A-0 170 772 (TANDY CORPORATION) * page 4, line 5 - line 27; claims; figures *	1,2,7	
A	US-A-4 065 044 (ALAN PAINTER) * abstract *	1,7-9	
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A	FR-A-2 220 380 (THE SIMCO COMPANY) * the whole document *	1,11,12	
D,A	& US-A-3 892 614 -----	1,11,12	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 16 DECEMBER 1992	Examiner SCHWANDER
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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